Railway Ticket Reservation System

Station
```
-stationName: String
-stationID: int
-distanceFromCentral: double
```
```
+Station()
+Station(stationName, stationID, distanceFromCentral)
+calcDistance(Station s): double
+onSameRoute(Station s): boolean
+toString(): String
```

Schedule
```
-station: Station
-arrivalTime: Calendar
-leavingTime: Calendar
-towardsCentral: boolean
```
```
+Schdedule()
+Schedule(station, arrivalTime, leavingTime, towardsCentral)
+toString(): String
```

Train
```
-trainName: String
-trainID: int
-trainRoute: Route
-pricePerKM: double
-acSeats: int
-shovonSeats: int
-sCharirSeats: int
-schedules: ArrayList<Schedule>
-bookedTicketCount: int[][]
```
```
+Train()
+Train(trainName, trainID, trainRoute, aCSeats, shovonSeats, sChairSeats)
+getRoute(): Route
+getSchedules(): ArrayList<Schedule>
+getRemainingSeats(): int[][]
+setSchedule(): void
+bookTicket(): Ticket
+getNumberOfStopages(): int
+toString(): String
+getTrainName(): String
```

Route
```
-routeNo: int {unique}
-stations: ArrayList<Station>
```
```
+Route()
+addStation(Station s): void
+removeStation(Station s): void
+printStationsInRoute(): void
```

Ticket
```
#serialNo: int {unique}
#stationFrom: Station
#stationTo: Station
#priceMultiplier
#travelDate: Calendar
#bookingDate: Calendar
```
```
+printTicket(): void
+calcPrice(): double
+Ticket()
+Ticket(stationFrom, stationTo, travelDate)
+setPriceMultiplier(double d): void
```

ShovonTicket
```
+ShovonTicket()
+ShovonTicket(stationFrom, stationTo, travelDate)
+calcPrice(): double
+setPriceMultiplier(double d): void
+printTicket(): void
```

ShovonChairTicket
```
+ShovonChairTicket()
+ShovonChairTicket(stationFrom, stationTo, travelDate)
+calcPrice(): double
+setPriceMultiplier(double d): void
+printTicket(): void
```

ACTicket
```
+ACTicket()
+ACTicket(stationFrom, stationTo, travelDate)
+calcPrice(): double
+setPriceMultiplier(double d): void
+printTicket(): void
```

Main
```
+manageTrains(): void
+manageStations(): void
+manageRoutes(): void
+manageSchedule(): void
+manageTickets(): void
+main()
+bookTicket()
```